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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,829	01/14/2004	Scigo Shiraishi	10873.1209USD1	5512
Hamre, Schum	7590 02/20/2007 ann, Mueller & Larson, P.0	EXAMINER		
P.O. Box 2902-0902			NGUYEN, TAI V	
Minneapolis, N	/IN 334UZ		ART UNIT	PAPER NUMBER
			3729	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	SHTM	02/20/2007	DADED	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

- E		Application No.	Applicant(s)				
Office Action Summary		10/757,829	SHIRAISHI ET AL.				
		Examiner	Art Unit				
		Tai Van Nguyen	3729				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING DESIGNATION OF THE MAILING DESIGNATION OF THE MAILING DESIGNATION OF THE PROPERTY OF THE MAILING DESIGNATION OF TH	OATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🖂	1) Responsive to communication(s) filed on 16 January 2007.						
2a)	This action is <b>FINAL</b> . 2b)⊠ Thi	s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	e ·					
4)🛛	4) Claim(s) 13,17,19 and 20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>13,17,19 and 20</u> is/are rejected.							
	Claim(s) is/are objected to.		•				
8)[	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No. 10/434,516.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	•						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
	3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
	er No(s)/Mail Date	6) ( Other:					
J.S. Patent and T	Frademark Office						

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## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/16/2007 has been entered.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 13, 17, 19 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Tone et al (US 4,523,122).

As applied to claim 13, Tone et al disclose a method for manufacturing an acoustic matching member, acoustic matching member comprising at least two layers including a first layer and a second layer the method comprising the step of: a) filling voids of a porous member a fluid filling material (column 5, lines 5-60) to create the first layer (17, Fig. 12); b) providing a surplus fluid filling material onto a surface of the porous member (sequence Fig. 4-12) to create the second layer (16); and c) solidifying

the fluid filling material inside the voids and the surplus fluid filling material at the same time (column 9, lines 5-24).

As applied to claim 17, Tone et al disclose the filling material comprise epoxy resin (column 10, lines 34-49).

As applied to claim 19, Tone disclose the density of the second layer is less than the density of the first layer (column 12, Table 3).

As applied to claim 20, Tone et al disclose shaping the first layer and the second layer into a desired from after solidification (20-51).

# Response to Arguments

4. Applicant's arguments filed 1/16/2007 have been fully considered but they are not persuasive.

The applicants' contend that Tone et al. does not teach the limitations of to "filling voids of a porous member with a fluid filling material to create the first layer; filling material in the first layer" (as recited in claim 13, lines 8-9) and "providing a surplus fluid filling material onto a surface of the porous member to create the second layer (as recited in claim 13, lines 11-12).

The examiner traverses for at least the following reasons:

In regards the merits of Tone shows in Fig. 12, filling voids of a porous member a fluid filling material (column 5, lines 5-60) to create the first layer (17); b) providing a surplus fluid filling material onto a surface of the porous member (sequence Fig. 4-12) to create the second layer (16).

Therefore, Tone fully satisfies the limitations of claim 13.

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#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai Van Nguyen whose telephone number is 571-272-4567. The examiner can normally be reached on M-F (7:30 A.M - 4:30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TN. February 14, 2007

PRIMARY EXAMINER

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